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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,413	06/01/2001	Jose Iborra	CHG-001.1P	3929
26717	7590 02/26/2004	•	EXAM	INER
FALK AND FISH			CHAVIS, JOHN Q	
16590 OAK VIEW CIRCLE MORGAN HILL, CA 95037		,	ART UNIT	PAPER NUMBER
Monorari		•	2124	~
			DATE MAILED: 02/26/2004	ı /

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/872,413	IBORRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	John Chavis	2124				
The MAILING DATE of this communication	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a it tion. s, a reply within the statutory minimum of thir y period will apply and will expire SIX (6) MON y statute, cause the application to become AE	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	6-1-01, 10-1-01, 6-13-02 and 7	<u>7-15-02</u> .				
2a) This action is FINAL . 2b) ∑	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for a	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice u	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application	Claim(s) <u>1-24</u> is/are pending in the application.					
4a) Of the above claim(s) is/are w	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-24</u> is/are rejected.						
	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
	0)⊠ The drawing(s) filed on <u>01 October 2001</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
The oath or declaration is objected to by	the Examiner. Note the attached	d Office Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents.	uments have been received. uments have been received in A	pplication No				
3. Copies of the certified copies of the		received in this National Stage				
application from the International E * See the attached detailed Office action for	•	received				
See the attached detailed Office action for	a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date <u>5.6</u> .						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims rejected under 35 U.S.C. 103(a) as being unpatentable over Goodwin in view of Features of VDM Tools (23-9-98), and further in view of Koob.

CLAIMS:

Goodwin

1. An automated software production tool, comprising: a software generating computer programmed to: receive user input that defines a conceptual model which models a system for which a computer program is to be written;

See the title and the abstract.

convert said conceptual model into a high level repository of formal specification statements stated in a

See the generating portion of the abstract (last phrase of the first sentence). In reference to the

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formal language having rules of syntax and semantics;

syntax and semantics portions,
see the parsing portion of fig. 5.

Note also the definition of parsing
(attached IEEE Definitions, inherently
provides for the syntax and semantics
features).

validate said formal specification using a validator program which, using the rules of syntax and semantics of said formal language, verifies that every statement in said formal specification is syntactically complete, semantically correct and not ambiguous.

The formal specification feature is unclear and unclear features are not entitled patentable weight. However, the feature is being interpreted as the converted portion above being validated. Although the feature of Testing converted programs is considered inherent in Goodwin's system to ensure the conversion is

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correct (col. 15 lines 58-65), Goodwin does not specifically mention it. However, the feature is taught by the article (cited prior art reference) entitled, Features of VDM Tools (23-9-98), to ensure the specification is correct (see the first and second pages). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to utilize the feature in Goodwin's system for that same reason to ensure the specifications are correct.

The feature is also taught by Koob for the same reason indicated above and

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to further modify the invention above to verify specifications, see section 3.

2. The system according to claim 1, wherein said software-generating computer is programmed to receive said user input using a CASE tool program for presenting a graphical user interface (GUI) to allow a user to input the requirements of said formal specification using a graphical tools to model said conceptual model graphically.

The references in claim 1 are not to specifically indicated the CASE tools or the GUI features; however, the features are taught by the cited prior art reference to Koob et al. to enable the user to incorporate formal specifications easier (via the GUI).

Therefore, it would have been obvious

To a person of ordinary skill in the art

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3. The system according to claim 1 wherein said software-generating computer is further programmed with a system logic translator, which controls said computer to process said formal language specification into one or more computer programs that can control a computer to carry out all the functions modeled in said formal specification.

at the time of the invention to utilize the feature of claim 1 for the same reasons.

See the rejection of claim 2 above.

4. The system according to claim 3 wherein said software-generating computer is further programmed with a user interface translator, which controls said computer to process said formal language specification into one or more computer programs that can control a computer to implement a particular user

See again the rejection of claim 2.

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interface for the program created by said system logic translator which has been modeled in said formal specification.

5. The system according to claim 3 wherein said software-generating computer is further programmed with a database generator, which controls said computer to process said formal language specification into a data structure or database is capable of storing the values of at least all attributes of all objects defined in said formal specification in a manner such that the program or programs generated by said system logic translator can control a computer to read the values of said attributes at any time or store new values for said

See again the rejection of claim 2 above.

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specification.

attributes at any time.

6. The system according to claim 1
wherein said software-generating
computer is further programmed by a
documentation generator for producing
documentation for the software
application based on the formal

See any of the references.

In reference to claims 7, 13-15, 17-20, and 23-24, see the rejection of claim 1.

As per claims 8-10, see the rejection of claims 3-5.

The features of claims 11-12 are taught via claims 3 and 2, respectively.

Claim 16 is taught via claim 2.

In reference to claims 21-22, see the rejection of claim 3.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Chavis whose telephone number is (703) 305-9665. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jc February 23, 2004

JOHN CHAVIS
PATENT EXAMINER
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